



US 20020075411A1

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2002/0075411 A1**
NGUYEN (43) **Pub. Date: Jun. 20, 2002**(54) **ANALOG VIDEO CHROMAKEY MIXER****Publication Classification**(76) Inventor: **JULIEN T. NGUYEN, SARATOGA, CA (US)**(51) **Int. Cl.⁷ H04N 9/74; H04N 9/75**
(52) **U.S. Cl. 348/587; 348/599**Correspondence Address:
SWERNOFSKY LAW GROUP
P O BOX 390013
MOUNTAIN VIEW, CA 94039-0013 (US)(57) **ABSTRACT**

An improved technique for mixing picture signals directed at a monitor screen. Two analog video signals (such as an analog VGA input and an analog ROB signal produced in response to a stored digital still or moving image) may be multiplexed in analog form. An analog chromakey mixer detects a background color in the first video signal (such as the analog VGA input), and replaces the portion of that first video signal with the second video signal. The time delays of the first video signal and the second video signal may be adjusted so that they reach the monitor screen (by means of a multiplexer output) at the same time. An alignment detector may attempt to align two known signals (such as a VGA sync signal and a signal generated for this purpose), and may adjust a set of time delays in the analog chromakey mixer until the time difference between the first and second video signals falls below a threshold.

(*) Notice: This is a publication of a continued prosecution application (CPA) filed under 37 CFR 1.53(d).

(21) Appl. No.: **08/765,464**(22) PCT Filed: **Jun. 27, 1995**(86) PCT No.: **PCT/US95/08279**